

5' NNN NGC CAN GCC CAA AGC CCT GGT ACC CGC GCG GTG GGG CCT CAG TCT GCG GCC 54

9 18 27 36 45

63 72 81 90 99

ATG GGG GCG TCC GCG CTG CTG CGA GCG GTG ATC ATG GGG GCC CCG GGC TCG 108

M G A S A R L L R A A V I M G A P G S

117 126 135 144 153

GGC AAG GGC ACC GTG TCG TCG CGC ATC ACT ACA CAC TTC GAG CTG AAG CAC CTC 162

G K G T V S S R I T T H F E L K H L

171 180 189 198 207

TCC AGC GGG GAC CTG CTC CGG GAC AAC ATG CTG CGG GGC ACA GAA ATT GGC GTG 216

S S G D L L R D N M L R G T E I G V

225 234 243 252 261

TTA GCC AAG GCT TTC ATT GAC CAA GGG AAA CTC ATC CCA GAT GAT GTC ATG ACT 270

L A K A F I D Q G K L I P D V M T

279 288 297 306 315

CGG CTG GCC CTT CAT GAG CTG AAA AAT CTC ACC CAG TAT AGC TGG CTG TTG GAT 324

R L A L H E L K N L T Q Y S W L L D

FIGURE 1A

333 GGT TTT CCA AGG ACA CTT CCA CAG GCA GCC GAA GAT AGA GCT TAT CAG ATC 378
 G F P R T L P Q A E A L D R A Y Q I

 387 GAC ACA GTG ATT AAC CTG AAT GTG CCC TTT GAG GTC ATT AAA CAA CGC CTT ACT 432
 D T V I N L N V P F E V I K Q R L T

 441 GCT CGC TGG ATT CAT CCC GCC AGT GGC CGA GTC TAT AAC ATT GAA TTC AAC CCT 486
 A R W I H P A S G R V Y N I E F N P

 495 CCC AAA ACT GTG GGC ATT GAT GAC CTG ACT GGG GAG CCT CTC ATT CAG CGT GAG 540
 P K T V G I D D L T G E P L I Q R E

 549 GAT GAT AAA CCA GAG ACG GTT ATC AAG AGA CTA AAG GCT TAT GAA GAC CAA ACA 594
 D D K P E T V I K R L K A Y E D Q T

 603 AAG NCA GTC CTG GNA TAT TAC CAG AAA AAA GGG GTG CTG GAA ACA TTC TCC GGA 648
 K X V L X Y Y Q K K G G V L E T F S G

FIGURE 1B

657	666	675	684	693	702
ACA GAA ACC	AAC AAG ATT	TGG CCC TAT	GTA TAT GCT	TTC CTA CAA	ACT AAA GTT
T E	N K I	W P Y	V Y A	F L Q	T K V
711	720	729	738	747	756
CCA CAA AGA	AGC CAG AAA	GCT TCA GTT	ACT CCA TGA	GGA ATG TGT	GTA ACT
P Q R	S Q K	A S V	T P		
765	774	783	792	801	810
ATT AAT AGT	AAG ATG GGC	AAA CCT CCT	AGT CCT TGC	ATT TAG AAG	CTG CTT TTC
819	828	837	846	855	
CTA AGA CTT	CTA GTA TGT	ATG AAT TCT	TTG AAA ATT	ATA TTA CTT	TTA 3'

—

1	M	G	A	S	A	R	L	L	R	A	V	I	M	G	A	P	G	S	G	K	G	T	V	S	S	R	I	T	H	F	E	L	K	H	L	S	S	G	D	HMAK		
1	M	G	A	S	A	R	L	L	R	A	A	I	M	G	A	P	G	S	G	K	G	T	V	S	S	R	I	T	K	H	F	E	L	K	H	L	S	S	G	D	g217576	
1	M	G	A	S	G	R	L	L	R	A	V	I	M	G	A	P	G	S	G	K	G	T	G	S	S	R	I	T	K	H	F	E	L	K	H	L	S	S	G	D	g450312	
1	M	A	S	-	-	K	L	L	R	A	V	I	L	G	P	P	G	S	G	K	G	T	V	C	Q	R	I	A	Q	N	F	G	L	Q	H	L	S	S	G	H	g28577	
41	L	L	R	D	N	M	L	R	G	T	E	I	G	V	L	A	K	A	F	I	D	Q	Q	G	K	L	I	P	D	D	V	M	T	R	L	A	L	H	E	L	K	HMAK
41	L	L	R	D	N	M	L	R	G	T	E	I	G	V	L	A	K	T	F	I	D	Q	Q	G	K	L	I	P	D	D	V	M	T	R	L	V	L	H	E	L	K	g217576
41	L	L	R	Q	N	M	L	Q	G	T	E	I	A	V	L	A	K	S	F	I	D	Q	Q	G	K	L	I	P	D	D	M	T	R	L	A	L	H	E	L	K	g450312	
39	F	L	R	E	N	I	K	A	S	T	E	V	G	E	M	A	K	Q	Y	I	E	K	S	L	L	V	P	D	H	V	I	T	R	L	M	M	S	E	L	E	g28577	
81	N	L	T	Q	Y	S	W	L	L	D	G	F	P	R	T	L	P	Q	A	E	A	L	D	R	A	Y	Q	I	D	T	V	I	N	L	N	V	P	F	E	V	HMAK	
81	N	L	T	Q	Y	N	W	L	L	D	G	F	P	R	T	L	P	Q	A	E	A	L	D	R	A	Y	Q	I	D	T	V	I	N	L	N	V	P	F	E	V	g217576	
81	N	L	T	Q	C	S	W	L	L	D	G	F	P	R	T	L	P	Q	A	E	A	L	D	R	V	Y	Q	I	D	T	V	I	N	L	N	V	P	F	E	V	g450312	
79	N	R	R	G	Q	H	W	L	L	D	G	F	P	R	T	L	G	Q	A	E	A	L	D	K	I	C	E	V	D	L	V	I	S	L	N	I	P	F	E	T	g28577	

FIGURE 2A

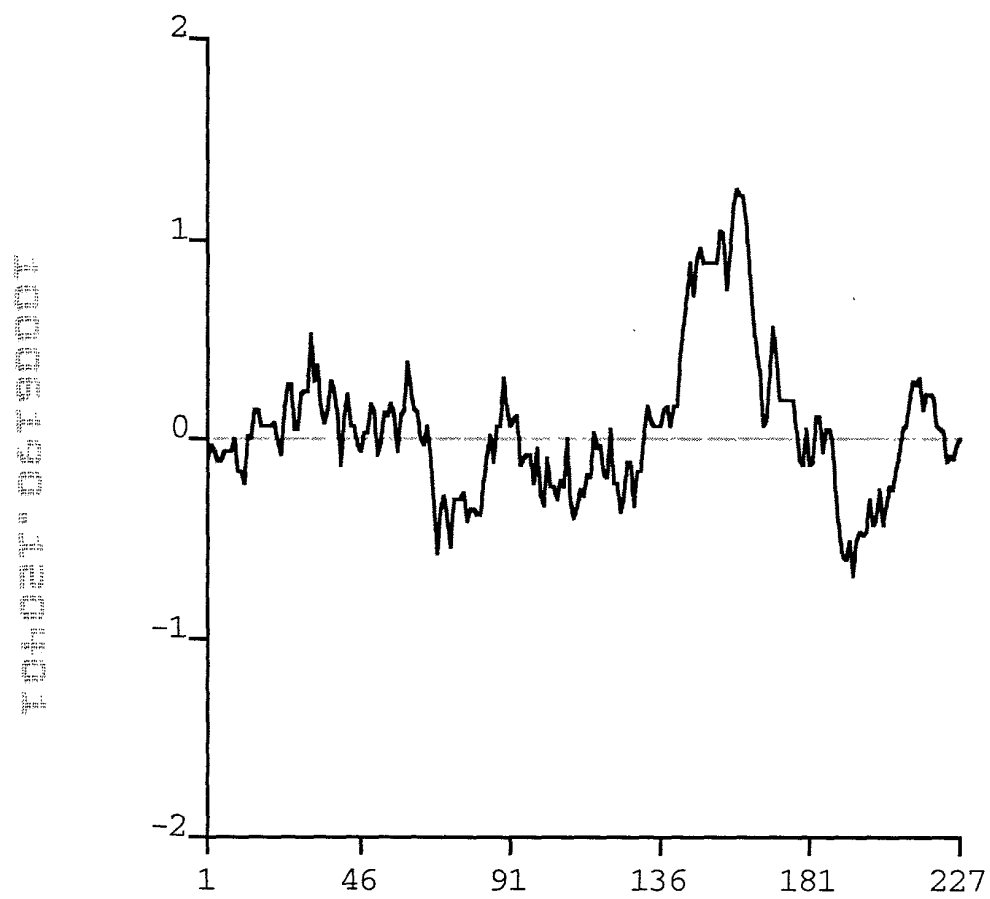


FIGURE 3A

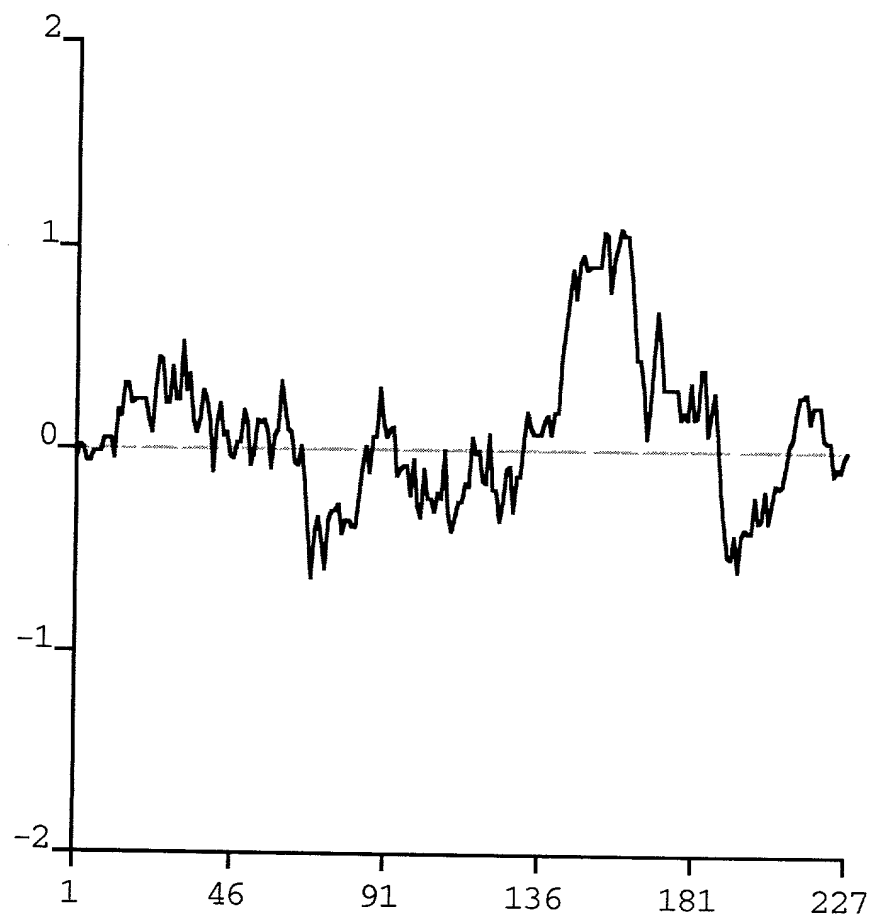


FIGURE 3B

The graph displays a time series with a clear upward trend and seasonal fluctuations. The x-axis is labeled from 1 to 227 in increments of 46. The y-axis ranges from -2 to 2. The data shows a peak around x=136 and another around x=181.

2

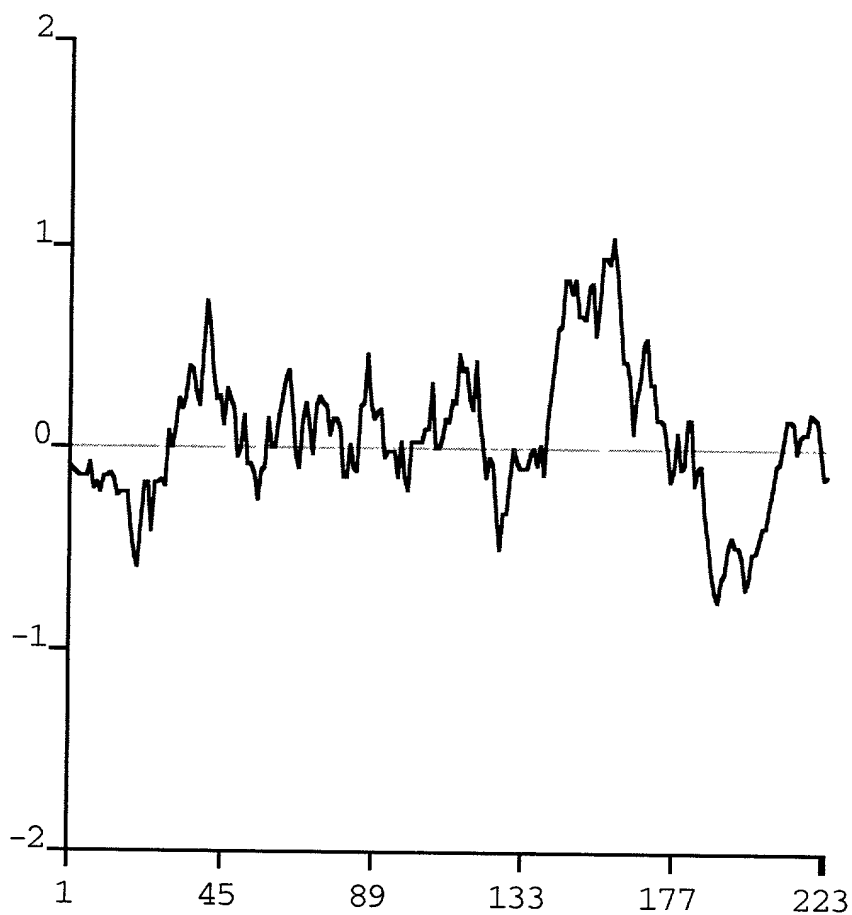


FIGURE 3D

Library	Lib Description	Abun	Pct Abun
MUSCNOT01	muscle, skeletal	2	0.0890
COLNNOT07	colon, 60 M, match to COLNTUT16	1	0.0409
SEMVNOT01	seminal vesicle, 58 M	1	0.0272
COLNTUT16	colon tumor, 60 M, match to COLNNOT07/08/09/11	1	0.0256
SKINBIT01	skin, leg, erythema nodosum	1	0.0256
OVARTUT04	ovarian tumor, 53 F	1	0.0252
ADRENOT08	adrenal gland, 20 M	1	0.0249
LIVSFEM03	liver/spleen, fetal M, NORM, WM	1	0.0246
HIPOAZT01	brain, hippocampus, Alzheimer's, 74 M	1	0.0245
TMLR2DT01	lymphocytes (non-adher PBMNC), M/F, 24-hr MLR	1	0.0212
SYNORAB01	synovium, hip, rheumatoid, 68 F	1	0.0195
HNT2RAT01	hNT2 cell line, teratocarcinoma, treated RA	1	0.0188
BRSTNOT07	breast, 43 F	1	0.0146
PLACNOM02	placenta, neonatal F, NORM, WM	2	0.0111
NGANNOT01	ganglioneuroma, 9 M	1	0.0073
LIVSFEM02	liver/spleen, fetal M, NORM, WM	1	0.0026

Electronic Northern Results returned a total of 16 row(s).

FIGURE 4